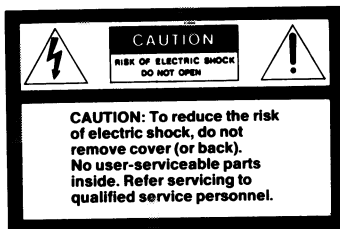


Special note for the US market:



WARNING: To prevent fire or electric shock, do not expose this appliance to rain or moisture.



This symbol indicates that a dangerous voltage constituting a risk of electric shock is present within this unit.



This symbol indicates that there are important operating and maintenance instructions in the literature accompanying this unit.

Special note for the UK market:

IMPORTANT!

The wires in the mains lead supplied with this apparatus are coloured in accordance with the following code:

BLUE: NEUTRAL
BROWN: LIVE

As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:

- The wire which is coloured blue must be connected to the terminal which is marked with the letter N or coloured BLACK.
- The wire which is coloured brown must be connected to the terminal which is marked with the letter L or coloured RED.

Ensure that your equipment is connected correctly. If you are in any doubt, consult a qualified electrician.

This equipment generates and uses radio frequency energy and if not installed and used properly, that is, in strict accordance with the manufacturer's instructions, may cause interference to radio and television reception. It has been type tested and found to comply with the limits for a Class B computing device in accordance with the specifications in Subpart J of Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference in a residential installation. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient the receiving antenna
- Relocate the computer with respect to the receiver
- Move the computer away from the receiver
- Plug the computer into a different outlet so that computer and receiver are on different branch circuits.

If necessary, the user should consult the dealer or an experienced radio/television technician for additional suggestions. The user may find the following booklet prepared by the Federal Communications Commission helpful:

"How to Identify and Resolve Radio-TV Interference Problems".

This booklet is available from the U.S. Government Printing Office, Washington, DC 20402, Stock No. 004-00345-4.

Table of contents

5	Placement
6	Mounting your loudspeaker
8	Connections Beolab
11	Connections Beovox
12	Setting the switches on the rear side of the Beolab 4500
14	VIDEO/AUDIO/OFF switch
16	Display Beolab 4500
19	What's wrong?
20	Optional accessories
21	Maintenance
23	International guarantee

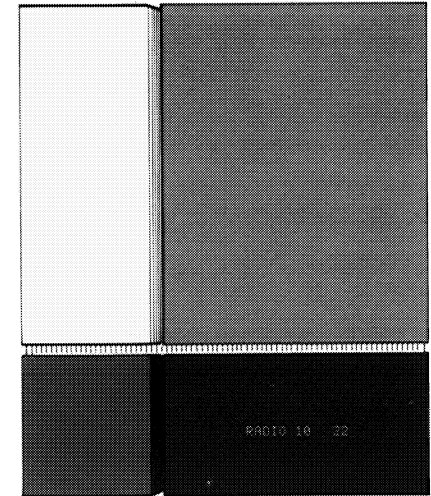
The Beolab/Beovox 4500 is a piece of functional art – a sophisticated combination of superb sound and unique design.

The loudspeaker unit is matched by a built-in amplifier which gives your music a tremendous boost, both in quantity and quality. And, to ensure the best sound possible, the speaker is equipped with the Dynamic Bass Equalizing system which extends the low-frequency performance.

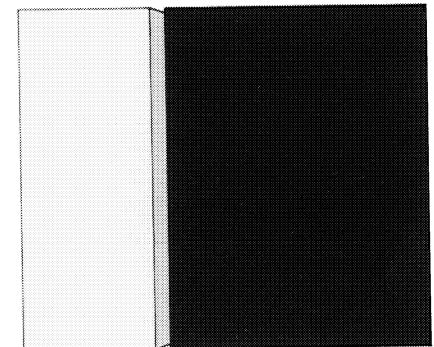
If your Beolab 4500 is connected to compatible Bang & Olufsen products, the display on the panel speaker will keep you informed about the current state of your audio or video system – accurately and yet discretely.

We are pleased that you have decided to bring the Bang & Olufsen panel loudspeaker into your family, and we feel confident that it will enhance the beauty of your home while giving you extraordinary musical experiences.

This manual describes how to mount the loudspeaker on your wall and how to connect and adjust it to your audio or video system.



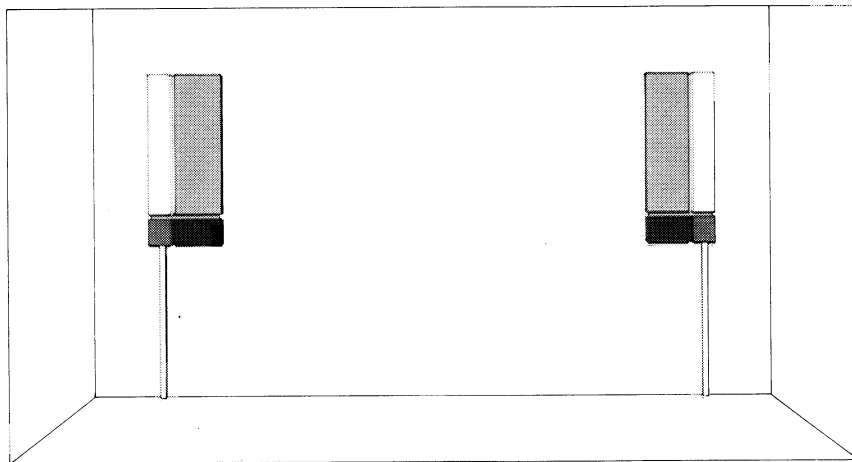
Beolab 4500



Beovox 4500

Placement

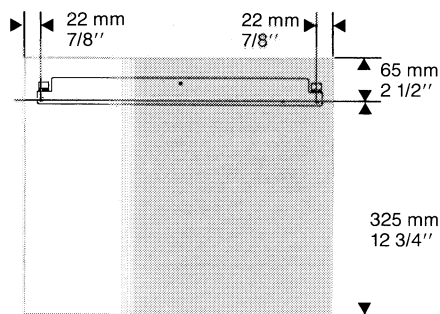
The Beolab/Beovox 4500 is designed to be hung on a wall. The wall is not used merely as a supporting structure – it is in fact essential to the sound of the speaker as it helps boost the bass response and ensures optimum speaker performance. Either speaker of the set supplied can be used as right or left speaker.



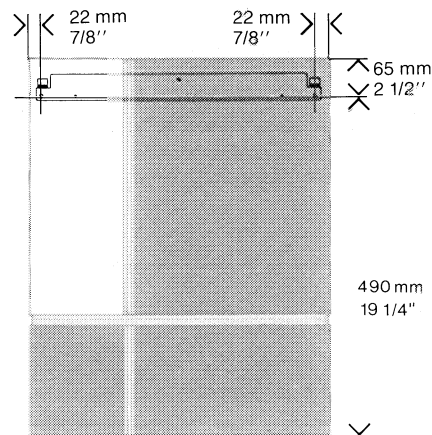
Mounting your loudspeaker

The panel speaker is supplied with a wall bracket on which to mount the speaker. When deciding where to drill the holes for the wall brackets, make sure that there is enough space for the speaker and for adjustment. Do not forget to allow for the Bang & Olufsen cable covers, if any (see page 21).

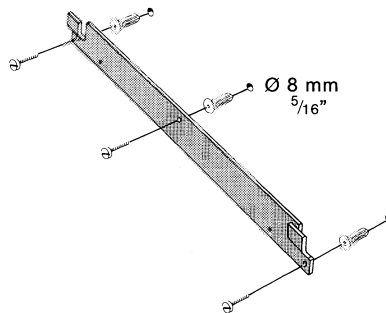
Beovox 4500:



Beolab 4500:



Using the screws and the wall anchors, fasten the bracket onto the wall.



The wall anchors are of a special type. They can be used in both solid walls and light partition walls.

Important installation note for the USA!

Interior walls are often constructed of gypsum panels – known as drywall or wallboard – secured to vertical wooden studs.

Wallboard is not satisfactory material to support the weight of the Beolab/Beovox 4500.

If you must mount the Beolab/Beovox 4500 on a wall of the previously mentioned nature, we recommend that at least one of the two mounting screws be a lag screw and that the lag screw be securely screwed into one of the wooden vertical wall studs.

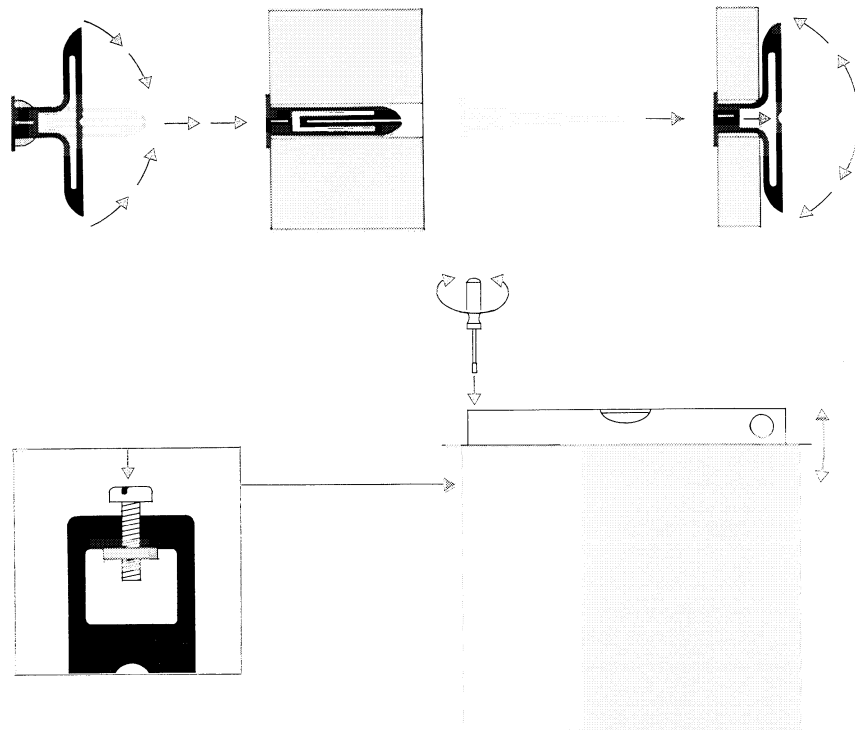
Squeeze the two flaps to insert the wall anchor into the hole.

If the wall anchor is used in a plaster board wall, the two flaps must be completely unfolded before the screw is inserted. Use the tool supplied to do so.

(We recommend that you carry out the connections described in the next section before mounting the Beolab/Beovox 4500 on the wall bracket).

Mount the loudspeaker on the wall bracket, making sure that it is seated securely on the hooks.

Adjust the adjustment screw up or down to ensure that the speaker is vertical and level.



Connections Beolab

The Beolab 4500 can be connected to either a receiver, a TV set, a Master Control Link 2 A or a Master Control Link 2 AV (MCL 2 A/ 2 AV).

NOTE! Before connecting the Beolab 4500 to the receiver, TV set or MCL 2 A/2 AV, make sure that the VIDEO/AUDIO/OFF switch

on the side of the speaker is set to OFF. This precaution applies to both the initial set-up and to later re-arrangements of connections.

Do not switch on your audio or video system until you have set the switches on the rear side of the speaker to their correct position (see pp 12-13).

To obtain a neat installation, you may run the cables in the grooves provided on the rear of the Beolab 4500.

For lengths and part numbers of the cables which can be used, see the section "Optional accessories".

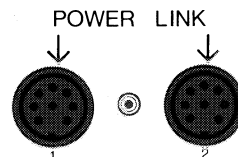
Connection to a Bang & Olufsen receiver or TV set or an MCL 2 A/2 AV

When connecting your Beolab 4500, you may use *either* the POWER LINK socket or the SPEAKER LINK socket.

○ POWER LINK 1 & POWER LINK 2 sockets (using an 8-pin DIN Power Link cable).

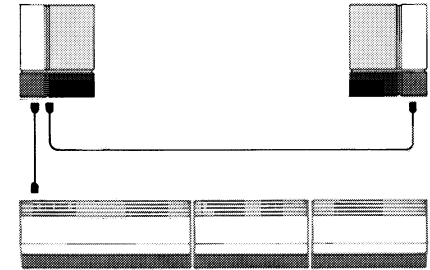
The sockets marked POWER LINK 1 & 2 are identical. This means that either socket can be used when you connect your Beolab 4500 by means of a Power Link cable.

- Plug one end of the cable into one of the POWER LINK sockets on the Beolab 4500.
- Plug the other end of the cable into one of the POWER LINK sockets on your receiver, TV set or MCL 2 AV.
- Repeat the procedure for the other speaker.



In order to avoid running cables from both speakers to your receiver, TV set or MCL 2 AV, you may loop the signal through:

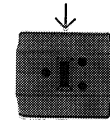
- Using one Power Link cable, connect one speaker to your receiver, TV set or MCL 2 AV.
- Using the other Power Link cable, connect the speakers to one another.



○ SPEAKER LINK socket
(using a *shielded* cable with 2-pin,
3-pin or 4-pin DIN speaker plugs)

- Plug one end of the cable into the SPEAKER LINK socket on the Beolab 4500.
- Plug the other end of the cable into the appropriate socket on your receiver, TV set or MCL 2 A/ 2 AV.
- Repeat the procedure for the other speaker.

SPEAKER LINK



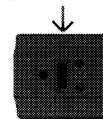
Connection to other receivers

When connecting your Beolab 4500, you may use *either* the SPEAKER LINK socket or the LINE IN socket.

○ SPEAKER LINK socket
(using a *shielded* cable with 2-pin DIN speaker plugs)

- Plug one end of the cable into the SPEAKER LINK socket on the Beolab 4500.
- Plug the other end of the cable into the appropriate loudspeaker socket on the receiver.
- Repeat the procedure for the other speaker.

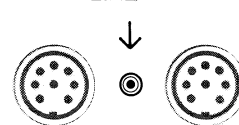
SPEAKER LINK



○ LINE IN socket
(using a *shielded* cable with phono plugs)

- Plug the appropriate cable end into the LINE IN socket on the Beolab 4500.
- Plug the other end of the cable into the appropriate phono socket (pre-amplifier output) on your receiver.
- Repeat the procedure for the other speaker.

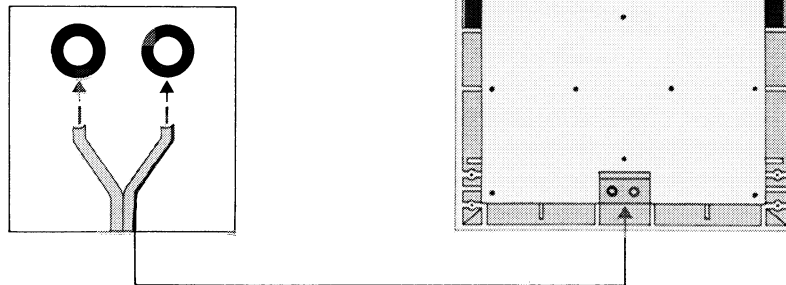
LINE IN



Connection Beovox

The stripped wire ends of the speaker cable supplied must be connected to the two terminals on the rear of the Beovox 4500:

Connect the wire end with the coded line to the red terminal (positive) and the other wire end to the black terminal (negative). Then connect the 2-pin DIN plug at the other end of the cable to the appropriate loudspeaker socket on your receiver or your TV-set.



Setting the switches on the rear side of the Beolab 4500

On the lower rear side of the speaker there are two switches:

- The input level switch (the longer of the two – 4 settings)
- The mode switch (the shorter of the two – 3 settings).

Input level switch

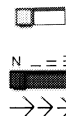
Set the input level switch to the position required to match the Beolab 4500 to the output of your receiver or TV set. If in doubt about your receiver/TV output, consult your Bang & Olufsen dealer.

POWER LINK socket:

If you have connected your speaker via the POWER LINK socket, there are no requirements as to the setting of the input level switch, because the acoustic level is independent of the setting of the switch.

SPEAKER LINK socket:

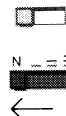
Switch position	Receiver/TV output* 4 ohm	8 ohm
—	- 40 W	- 20 W
==	40 - 80 W	20 - 40 W
===	80 - W	40 - W



* 4 ohms and 8 ohms receiver/TV output specified for 4 and 8 ohms speaker impedance.

LINE IN socket:

Set the switch to N.



Mode switch

Once connected to the mains supply, the Beolab 4500 is in the stand-by mode. The stand-by mode is indicated by a red light next to the display.

The speaker switches on automatically when it receives a signal, unless, of course, the VIDEO/AUDIO/OFF switch is set to OFF (see page 14).

Set the mode switch to either A, L (left) or R (right):

Sockets	Mode switch
POWER LINK	
Left speaker	L
Right speaker	R
SPEAKER LINK	A
LINE IN	A

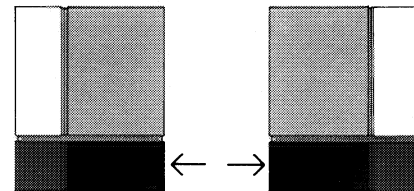
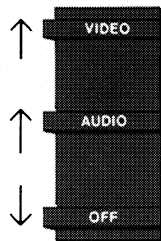


When the TV set/receiver to which the Beolab 4500 is connected goes into stand-by, the loudspeaker automatically switches itself off – i.e. reverts to the stand-by mode.

This happens instantly if you have connected the speaker using a Power Link cable or a shielded 4-pin DIN speaker cable. In all other cases the Beolab 4500 goes into stand-by after approx. 3 minutes.

VIDEO/AUDIO/OFF switch

In order to obtain the right status reading from the display, the VIDEO/AUDIO/OFF switch must be set to the correct position:



VIDEO

if the Beolab 4500 is connected to a Beovision.

AUDIO

if the Beolab 4500 is connected to a Beomaster, Beocenter or MCL 2 A/2 AV.

For the use of the OFF position, see the sections "Connections" (page 8) and "What's wrong?" (page 19).

Display Beolab 4500

If connected to a compatible Bang & Olufsen receiver, TV set or MCL 2 A/2 AV, your Beolab 4500 displays information about the source of the sound reproduced by the speaker. However, in order to give full status reading in the display, the Beolab 4500 must be connected to a Bang & Olufsen product with POWER LINK sockets. If you use a 4-pin DIN speaker cable to connect your Beolab 4500 to the SPEAKER LINK

socket on a Bang & Olufsen product equipped with POWER LINK sockets, you still get full reading in the display.

If the Beolab 4500 is connected to a product without POWER LINK sockets, the status reading will be either slightly reduced or completely missing, depending on the product. If in doubt about which kind of status reading you can get, consult your Bang & Olufsen dealer.



Source

Program
Track

Volume

The displayed cues and symbols are not all visible at the same time.

SOURCE

RADIO
RADIO FM
RADIO AM

Radio
FM broadcast
AM broadcast

CD

Compact disc player

A.TAPE

A.TP2

Audio tape recorder
Second audio tape
recorder

PHONO

Record player

A.AUX

Auxiliary audio product

TV
SAT

Television
Satellite television

V.TAPE

V.TP2

Video tape recorder
Second video tape
recorder

V.AUX

Auxiliary video product

Recording:

A-REC

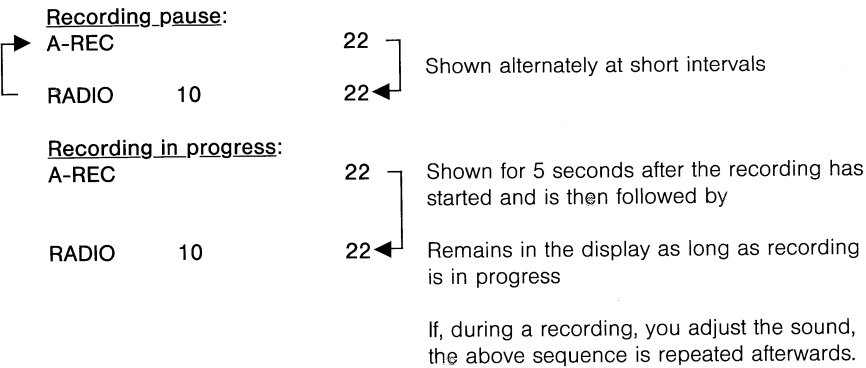
Recording on audio tape
recorder

V-REC

Recording on video tape
recorder

PROGRAM/TRACK		VOLUME			
10	Preset radio or TV station; Track number on CD, audio tape or video tape	00-98	Volume level range	BALANCE <X BALANCE >1	Balance is neutral More sound in right speaker (>1 to >9)
		-- --	Speakers muted		
>	Tuning towards a higher frequency	> <	Equal balance in both speakers	BALANCE 1<	More sound in left speaker (1< to 9<)
<	Tuning towards a lower frequency	LOUDNESS OFF	Loudness function cut out	CNT-BAL <X	Center balance is neutral
< >	The highest/lowest frequency has been reached	LOUDNESS ON	Loudness function cut in	CNT-BAL <1>	Sound shifted 1 step outwards from center (<1> to <9>)
>>	Winding forwards towards the end			CNT-BAL >1<	Sound shifted 1 step inwards towards center (>1< to >9<)
<<	Rewinding backwards towards the beginning				
< >	Pause/stop			BASS 0 BASS + 1 BASS - 1	Bass is neutral Bass 1 step above neutral (+1 to +9) Bass 1 step below neutral (-1 to -9)
				TREBLE 0 TREBLE + 1 TREBLE - 1	Treble is neutral Treble 1 step above neutral (+1 to +9) Treble 1 step below neutral (-1 to -9)

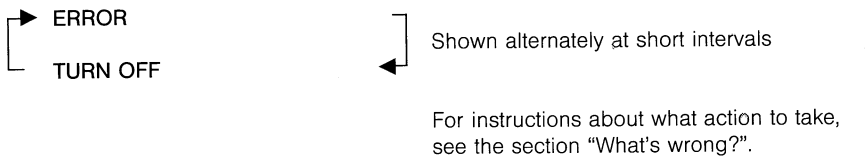
Status reading on recording



Missing source



Protection circuit activated



What's wrong?

Display shows ERROR/TURN OFF

The Beolab 4500 features a protection circuit which is automatically activated if something is wrong, e.g.

- if the amplifier unit is overheated,
- if a fault occurs in the amplifier which could damage the loud-speaker units.

If the protection circuit is activated, the sound disappears and the display will alternately show ERROR and TURN OFF.

Should this happen

- set the VIDEO/AUDIO/OFF switch located on the side of the speaker to the OFF position,
- allow the amplifier time to cool off,
- set the VIDEO/AUDIO/OFF switch to the AUDIO or VIDEO position again.

If the sequence ERROR/TURN OFF is still shown in the display, contact your Bang & Olufsen dealer.

No display

If there is no light in the display

- disconnect the Beolab 4500 from the mains supply,
- reconnect the Beolab 4500 to the mains supply.

If there is still no light in the display, contact your Bang & Olufsen dealer. Do not cut the power supply in and out several times in a row.

Optional accessories

The accessories listed below are all available as optional extras from your Bang & Olufsen dealer.

Cables

Part No

4-pin DIN shielded speaker cables

5 m (16')

6270336

10 m (33')

6270352

8-pin DIN Power Link cables

2.5 m (8')

6270417

5 m (16')

6270418

10 m (33')

6270419

2-pin DIN shielded speaker cable

5 m (16')

6270350

Adaptor for Power Link

8-pin DIN female/8-pin

DIN female

7229075

Cable covers

Metal finish:

The Bang & Olufsen metal finish cable covers are designed to match and enhance the beauty of the Beolab/Beovox 4500 while concealing the speaker cables. They come in the following versions:

Cable Cover 4500,
length 1.30 m (51")

8960300

Plastic:

The Bang & Olufsen plastic cable covers are designed to help you conceal your cables in a neat way. They come in the following versions:

Length 2.50 m (98½")
Internal dimensions 10 x 20 mm
($\frac{3}{8}$ " x $\frac{3}{4}$ ")

2560232

Maintenance

To make the stainless steel surfaces shiny, polish them thoroughly using a dry, soft cloth.

Remove fingerprints and grease stains using a mild detergent on a soft cloth.

International guarantee

This Bang & Olufsen product carries a guarantee against defects in workmanship and materials. The terms of the guarantee apply to the country of purchase but will be met by authorized Bang & Olufsen dealers in other countries. The guarantee period applying to the country of purchase takes priority over guarantee periods applying in other countries, even where differences exist.

In order to obtain service under this guarantee, a certificate stating the following information is required:

- Name of product and type number
- Serial number
- Date of purchase
- Guarantee period
- Dealer's or supplier's signature